

## STEAM VEHICLES

## NUMBER OF DIFFERENT PATTERNS DISPLAYED, 11.

Wood Wheels ... 8	Meteor, Foster, Toledo, White, Locomobile, Grout Tonneau, Grout Runabout, Lane.	
Wire Wheels ... 2	Mobile, Prescott.	
Tubular Wheels.. 1	Stearns.	
Single Tube Tires ..... 5	Stearns, Mobile, Locomobile, Grout Runabout, Prescott.	
Detachable Tires. 6	Meteor, Foster, Toledo, White, Grout Tonneau, Lane.	
Tubular Running Gear ..... 4	Meteor, Toledo, Locomobile, Grout Runabout, Prescott, Lane.	
Angle or Chan- nel Steel Run- ning Gear ... 4	Meteor, Foster, Locomobile, Grout Tonneau.	
Wood Running Gear ..... 2	Stearns, White.	
Wheel Steer .... 4	Meteor, White, Locomobile, Grout Tonneau.	
Lever Steer .... 7	Stearns, Foster, Mobile, Toledo, Locomobile, Grout Runabout, Prescott, Lane.	
Water Tube Boiler ..... 2	Foster, Toledo.	
Fire Tube Boiler ..... 8	Stearns, Meteor, Mobile, Locomobile, Grout Tonneau, Grout Runabout, Prescott, Lane.	
Flash Boiler ... 1	White.	
Boiler in Front. 2	Meteor, Grout Tonneau.	
Engine in Front. 1	White.	
Boiler under Body ..... 9	Stearns, Foster, Mobile, Toledo, White, Lane, Locomobile, Grout Runabout, Prescott.	
Engine under Body ..... 10	Stearns, Meteor, Foster, Mobile, Toledo, Locomobile, Grout Tonneau, Grout Runabout, Prescott, Lane.	
Automatic Air Pressure Pump 9	Stearns, Meteor, Mobile, Toledo, White, Prescott, Lane, Grout Tonneau, Grout Runabout.	
Automatic Fuel Regulator .... 9	Stearns, Meteor, Foster, Mobile, Toledo, White, Locomobile, Prescott, Lane.	
Automatic Water Regulator .... 5	Mobile, Toledo, White, Grout Tonneau, Grout Runabout.	
Pilot Light .... 10	Stearns, Foster, Mobile, White, Locomobile, Grout Tonneau, Grout Runabout, Prescott, Lane, Toledo.	
Automatic Lubri- cation ..... 8	Meteor, Foster, Mobile, White, Locomobile, Grout Tonneau, Grout Runabout, Prescott.	
Kerosene Fuel.. 2	Mobile, Toledo.	
Condenser ..... 4	Foster, Toledo, White, Grout Tonneau.	
Steam Water Pump ..... 2	Meteor, Prescott.	

## ELECTRIC VEHICLES

## NUMBER OF DIFFERENT PATTERNS DISPLAYED, 8.

Wood Wheels ... 5	Studebaker, National, Waverley, Vehicle Equipment Co., Columbia.	
Wire Wheels ... 3	Baker, Ajax, Centaur.	
Tubular Wheels. 0		
Single Tube Tires ..... 4	Baker, Ajax, Columbia, Centaur.	
Detachable Tires. 3	Studebaker, National, Waverley.	
Solid Tires .... 2	Columbia, Vehicle Equipment Co.	
Tubular Running Gear ..... 3	Studebaker, Baker, Ajax.	
Angle or Channel Steel Running Gear ..... 0		
Wood Running Gear ..... 2	Columbia, Centaur.	
Wheel Steer .... 0		
Lever Steer .... 8	Studebaker, National, Waverley, Baker, Ajax, Vehicle Equipment Co., Centaur, Columbia.	
Low Voltage Mo- tor ..... 5	Baker, Vehicle Equipment Co., Ajax, Columbia, Centaur.	
High Voltage Mo- tor ..... 4	Studebaker, National, Waverley, Columbia.	
Chain Drive to Wheels ..... 4	Studebaker, Baker, Ajax, Centaur.	
Gear Drive to Wheels ..... 4	National, Waverley, Vehicle Equipment Co., Columbia.	
Double Motor ... 2	Vehicle Equipment Co., Columbia.	
Single Motor ... 6	National, Waverley, Studebaker, Baker, Ajax, Centaur.	
Divided Battery. 4	Studebaker, Ajax, Columbia, Centaur.	
Motor Suspended on Axle .... 3	National, Waverley, Columbia.	
Motor Suspended from Body ... 4	Baker, Vehicle Equipment Co., Ajax, Centaur.	
Motor Hung from Frame ..... 1	Studebaker.	

# GASOLINE VEHICLES.

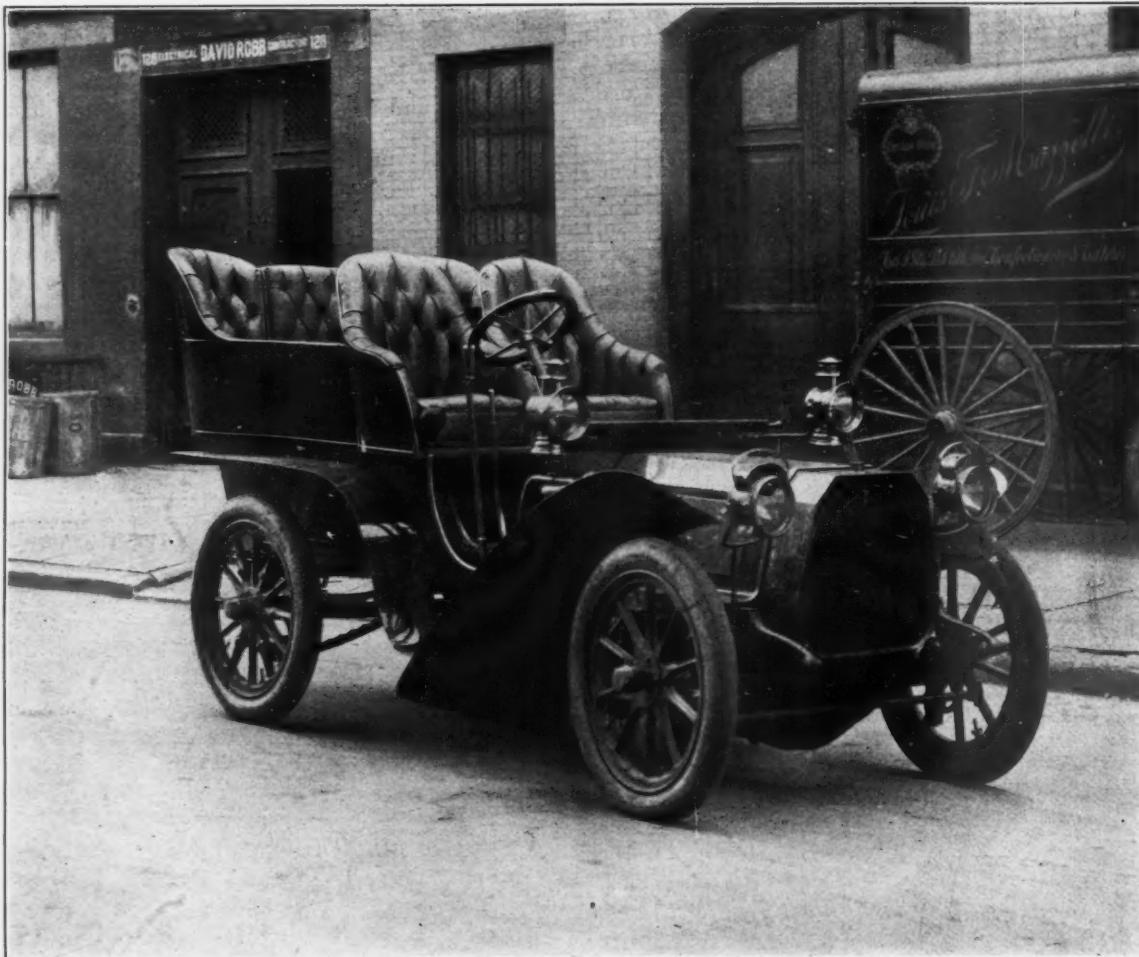
Number of Constructionally Different Styles, 65.

Wood Wheels....56	Ward-Leonard, Winton, Duryea, Pierce Motorette, Pierce Arrow, Rambler, Thomas, Spaulding, Robinson, Searchmont, Stevens-Duryea, Olds, Automotor Heavy Car, Automotor Light Car, Conrad, Packard, Packard, Peerless, Peerless, Long Distance, Long Distance, Autocar, Walter, Knox, Pan-American, Toledo, Stearns, Locomobile, Locomobile, Berg, Berg, Matheson, Conrad, Haynes-Apperson, Moyea, Yale, Columbia, Hoffman, Mechaley, Century, Franklin, Cadillac, De Dion, Walter, Stearns, American, Buckmobile, Warwick, Hall, Elmore, Kensington, Desberon, Fiat, Ward-Leonard, Upton, Olds Tonneau.	Wheel Steer....51	Ward-Leonard, Winton, Pierce Arrow, Thomas, Spaulding, Covert, Robinson, Searchmont, Stevens-Duryea, Automotor, Automotor, Conrad, Packard, Packard, Peerless, Peerless, Long Distance, Long Distance, Walter, Pan-American, Toledo, Stearns, Locomobile, Locomobile, Conrad, Haynes-Apperson, Moyea, Yale, Columbia, Hoffman, Brazier, Mechaley, Franklin, Cadillac, De Dion, Walter, Stearns, American, Country Club, Hall, Elmore, Kensington, Desberon, Fiat, Ward-Leonard, Olds Tonneau, Upton, Berg, Berg, General, Matheson.
Wire Wheels.... 6	Covert, Conrad Runabout, Orient Runabout, Orient Buckboard, Whitney, Country Club Car.	Column Steer.... 2	Autocar, Warwick.
Tubular Wheels.. 3	Crest, General, Cleveland.	Lever Steer....12	Duryea, Pierce Motorette, Rambler, Crest, Olds, Knox, Orient Runabout, Orient Buckboard, Cleveland, Century, Whitney, Buckmobile.
Single Tube Tires .....14	Rambler, Olds, Conrad, Orient Runabout, Orient Buckboard, Berg, Berg, Mechaley, Cadillac, Whitney, Country Club Car, Elmore, Desberon, Pierce Motorette.	Vertical Motor...39	Ward-Leonard, Pierce Motorette, Pierce Arrow, Crest, Spaulding, Covert, Robinson, Searchmont, Automotor, Automotor, Conrad, Peerless, Peerless, Long Distance, Walter, Pan-American, Toledo, Locomobile, Locomobile, Orient Runabout, Orient Buckboard, Berg, Berg, General, Conrad, Moyea, Columbia, Brazier, Franklin, De Dion, Buckmobile, Warwick, Elmore, Kensington, Fiat, Desberon, Ward-Leonard, Upton, Packard.
Detachable Tires..51	Ward-Leonard, Winton, Duryea, Pierce Arrow, Thomas, Crest, Spaulding, Covert, Robinson, Searchmont, Stevens-Duryea, Automotor, Automotor, Packard, Packard, Peerless, Peerless, Long Distance, Long Distance, Autocar, Walter, Knox, Pan-American, Toledo, Stearns, Locomobile, Locomobile, General, Matheson, Conrad, Haynes-Apperson, Cleveland, Yale, Columbia, Hoffman, Brazier, Century, Franklin, De Dion, Walter, Stearns, American, Buckmobile, Warwick, Hall, Kensington, Fiat, Ward-Leonard, Upton, Olds Tonneau, Moyea.	Horizontal Motor.26	Winton, Rambler, Thomas, Stevens-Duryea, Olds, Packard, Long Distance, Autocar, Knox, Stearns, Matheson, Haynes-Apperson, Cleveland, Yale, Hoffman, Mechaley, Century, Cadillac, Walter, Whitney, Stearns, American, Country Club, Hall, Kensington, Olds Tonneau.
Solid Tires..... 0		One Cylinder....22	Pierce Motorette, Rambler, Thomas, Crest, Olds, Covert, Packard, Long Distance, Knox, Stearns, Orient Runabout, Orient Buckboard, General, Matheson, Cleveland, Hoffman, Century, Cadillac, Whitney, American Warwick, Ward-Leonard.
Tubular Running Gears .....12	Pierce Motorette, Pierce Arrow, Crest, Stevens-Duryea, Walter, Conrad, Moyea, De Dion, Walter, Warwick, Kensington, Ward-Leonard.	Two Cylinders...28	Winton, Pierce Arrow, Spaulding, Searchmont, Conrad, Stevens-Duryea, Automotor, Conrad, Peerless, Long Distance, Autocar, Walter, Toledo, Locomobile, Berg, De Dion, Stearns, Buckmobile, Brazier, Country Club, Hall, Elmore, Kensington, Desberon, Olds Tonneau, Haynes-Apperson, Mechaley, Yale.
Angle or Channel Running Gears.38	Winton, Rambler, Thomas, Covert, Robinson, Automotor, Automotor, Conrad, Packard, Packard, Peerless, Peerless, Long Distance, Long Distance, Autocar, Pan-American, Stearns, Locomobile, Locomobile, Orient Runabout, Berg, Berg, Haynes-Apperson, Moyea, Cleveland, Yale, Columbia, Hoffman, Mechaley, Century, Franklin, Cadillac, Whitney, Country Club Car, Elmore, Kensington, Desberon, Upton.	Three Cylinders.. 2	Toledo, Duryea.
Wood Frame .... 4	Orient Buckboard, General, Buckmobile, Toledo.		

## GASOLINE VEHICLES—Continued

Four Cylinders .. 15	Ward-Leonard, Robinson, Automotor, Packard, Peerless, Pan-American, Toledo, Locomobile, Berg, Moyea, Columbia, Franklin, Walter, Fiat, Upton.	Air Cooled Motors ..... 4	Crest, Knox, Franklin, Orient Buckboard.
Magneto or Dynamo ..... 5	Ward-Leonard, Berg, Berg, Columbia, Duryea.	Sliding Gear Transmission .25	Ward-Leonard, Thomas, Spaulding, Covert, Searchmont, Conrad, Packard, Packard, Peerless, Peerless, Autocar, Walter, Toledo, Locomobile, Locomobile, Conrad, Columbia, Hoffman, Walter, Stearns, Buckmobile, Kensington, Desberon, Fiat, Ward-Leonard.
Batteries ..... 44	Winton, Pierce Motorette, Pierce Arrow, Rambler, Thomas, Crest, Covert, Stevens-Duryea, Olds, Automotor, Automotor, Conrad, Packard, Packard, Long Distance, Long Distance, Autocar, Walter, Knox, Pan-American, Stearns, Orient Runabout, Orient Buckboard, General, Matheson, Conrad, Moyea, Cleveland, Yale, Hoffman, Mechaley, Century, Cadillac, De Dion, Walter, Whitney, Stearns, American, Buckmobile, Hall, Kensington, Desberon, Ward-Leonard, Olds Tonneau.	Sliding C'utch Gear ..... 12	Pierce Arrow, Stevens-Duryea, Pan-American, Berg, Berg, Matheson, Moyea, Brazier, De Dion, American, Warwick, Olds Tonneau.
Both ..... 16	Spaulding, Robinson, Searchmont, Peerless, Peerless, Toledo, Locomobile, Locomobile, Haynes-Apperson, Brazier, Franklin, Warwick, Country Club, Elmore, Fiat, Upton.	Planetary Gear .23	Duryea, Pierce Motorette, Rambler, Olds, Automotor, Automotor, Long Distance, Long Distance, Knox, Stearns, Orient Runabout, General, Yale, Cleveland, Mechaley, Century, Franklin, Cadillac, Whitney, Country Club, Hall, Elmore, Upton.
Motor Front .... 35	Ward-Leonard, Pierce Arrow, Crest, Spaulding, Covert, Robinson, Searchmont, Automotor, Automotor, Conrad, Packard, Peerless, Peerless, Long Distance, Autocar, Walter, Pan-American, Toledo, Conrad, Moyea, Columbia, Brazier, Franklin, De Dion, Walter, Elmore, Kensington, Desberon, Fiat, Ward-Leonard, Upton, Locomobile, Locomobile, Berg, Berg.	Spur Gear Friction Clutch.... 4	Winton, Crest, Robinson, Haynes-Apperson.
Motor Back .... 30	Winton, Duryea, Pierce Motorette, Rambler, Thomas, Stevens-Duryea, Olds, Packard, Long Distance, Knox, Stearns, Orient Runabout, Orient Buckboard, General, Matheson, Haynes-Apperson, Cleveland, Yale, Hoffman, Mechaley, Century, Cadillac, Whitney, Stearns, American, Buckmobile, Warwick, Country Club, Hall, Olds Tonneau.	Direct Drive.... 1	Orient Buckboard.
Motor Back, Hood Front ..... 20	Rambler, Thomas, Packard, Long Distance, Stearns, Matheson, Haynes-Apperson, Cleveland, Yale, Hoffman, Mechaley, Whitney, Stearns, American, Warwick, Country Club, Hall, Winton, General, Olds Tonneau.	Spur Differential.36	Ward-Leonard, Winton, Pierce Motorette, Pierce Arrow, Rambler, Thomas Crest, Spaulding, Covert, Stevens-Duryea, Automotor, Automotor, Packard, Toledo, Orient Runabout, Orient Buckboard, General, Matheson, Haynes-Apperson, Cleveland, Yale, Columbia, Hoffman, Mechaley, Century, Franklin, Cadillac, De Dion, Whitney, Stearns, Buckmobile, Warwick, Elmore, Ward-Leonard, Upton.
Mechanical Lubrication ..... 40	Ward-Leonard, Pierce Arrow, Rambler, Thomas, Crest, Covert, Robinson, Searchmont, Olds, Automotor, Packard, Peerless, Peerless, Long Distance, Long Distance, Autocar, Walter, Pan-American, Toledo, Stearns, General, Haynes-Apperson, Moyea, Yale, Columbia, Brazier, Mechaley, De Dion, Walter, Whitney, Stearns, Country Club, Hall, Elmore, Kensington, Desberon, Fiat, Ward-Leonard, Upton, Olds Tonneau.	Bevel Gear Differential .... 29	Duryea, Robinson, Searchmont, Olds, Conrad, Packard, Peerless, Peerless, Long Distance, Long Distance, Autocar, Walter, Knox, Pan-American, Locomobile, Locomobile, Berg, Berg, Conrad, Moyea, Brazier, Walter, American, Country Club, Hall, Kensington, Desberon, Fiat, Olds Tonneau.
Mechanical Inlet Valves ..... 12	Rambler, Thomas, Olds, Long Distance, Long Distance, Toledo, General, Matheson, Cadillac, Walter, Country Club, Olds Tonneau.	Bevel Gear Drive.18	Ward-Leonard, Pierce Arrow, Crest, Covert, Automotor, Automotor, Packard, Long Distance, Autocar, Walter, Brazier, De Dion, Walter, Kensington, Desberon, Ward-Leonard, Peerless, Peerless.
		Single Chain Drive ..... 34	Winton, Duryea, Rambler, Thomas, Stevens-Duryea, Olds, Conrad, Packard, Long Distance, Knox, Stearns, Orient Runabout, Berg, Berg, General, Matheson, Conrad, Haynes-Apperson, Cleveland, Yale, Hoffman, Mechaley, Century, Franklin, Cadillac, Whitney, Stearns, American, Buckmobile, Warwick, Elmore, Olds Tonneau, Hall, Country Club.
		Double Chain Drive ..... 11	Spaulding, Robinson, Searchmont, Pan-American, Toledo, Locomobile, Locomobile, Moyea, Fiat, Columbia, Upton.
		Spur Gear Drive 2	Orient Buckboard, Pierce Motorette.

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## THE MOYEA TOURING CAR

Met with instantaneous approval from experts and the general public. The powerful motors, beautiful workmanship, and finish, high grade material and simplicity of mechanical design makes the machine the center of interest.

PRICE \$5,000.

Deliveries in early Spring.

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**THE Locomobile COMPANY**

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We are disappointed in not being able to exhibit our steam tonneau at the New York Show, but photographs can be seen there and the mechanism of the car explained to all those interested in the same. Our factory is now working on the parts for these cars and we will be able to make deliveries this spring. We will be very much pleased to furnish by mail specifications and details of this new model.

In writing, state if you are a Locomobile owner and if so, the style and number of the car you are using.

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## Revelation: Thomas Auto-Bi Model 35



Price \$200

Spring Truss Forks

Hygienic Cushion  
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Thomas Steel and  
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All the hitherto vexatious problems of Entire Strength and Safety, Transmission, Hill Climbing, Comfort and Speed on Country Roads, Vibration and General Utility have been solved and with leaps and bounds the Thomas Auto-Bi takes its place far ahead of all competitors. Agents should apply at once in order to secure early delivery.

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**E. R. THOMAS MOTOR CO.**  
(BUFFALO AUTOMOBILE & AUTO-BI COMPANY)  
BUFFALO, - - - N. Y.

# THE GENERAL

Booths  
27, 28, 29,  
New York  
Automobile  
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for all seasons

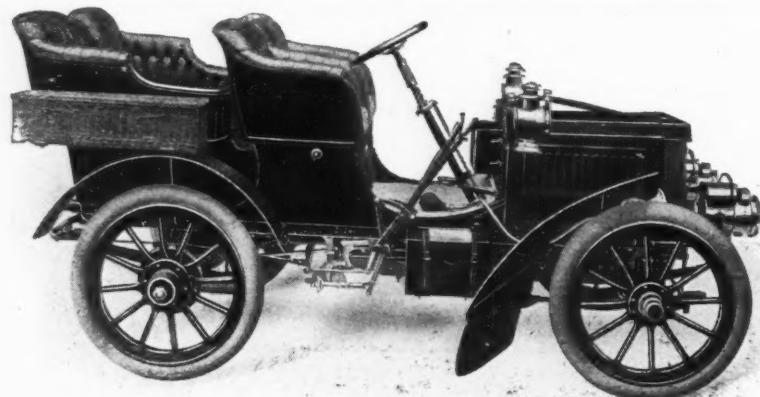
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**O**UR 1903 model Runabout embraces all the good points of an up-to-date machine. Equipped with an 8 horse-power double cylinder engine, it possesses almost the power and speed of a touring car. Handsome in design, attractive in finish. A practical and serviceable machine at a moderate price. Agents being appointed in unassigned territory. Catalog upon request.

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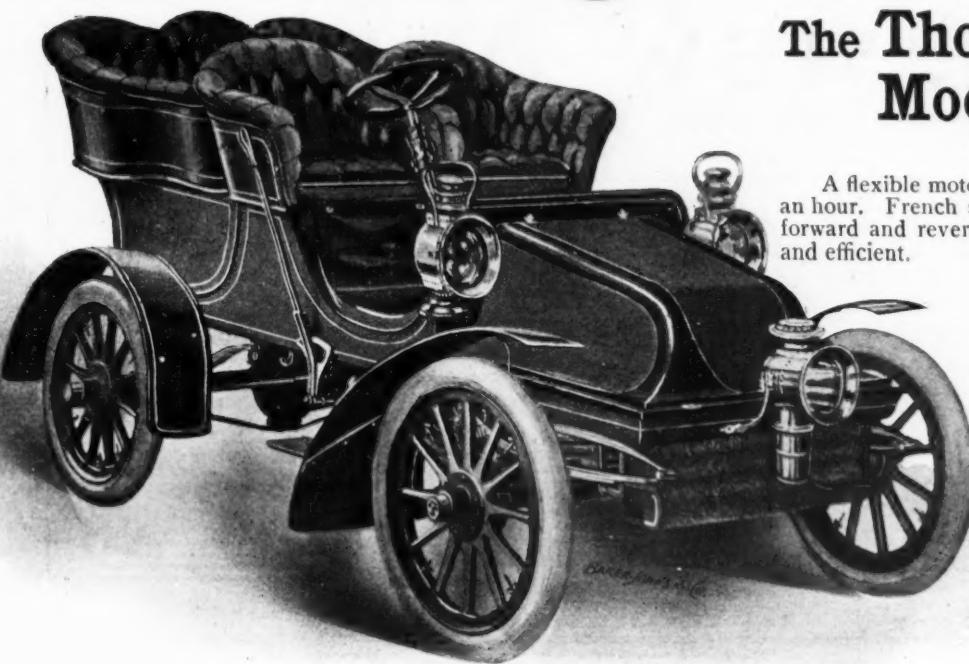
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A flexible motor varying in speed from 4 to 25 miles an hour. French system of transmission, three speeds forward and reverse. Construction throughout simple and efficient.

No Chaffeur required to run this machine. Model No. 18 carries all the proven improvements of the day, a few of which are wide tread, long wheel base, wood artillery wheels (our own special design), detachable tires, sight feed multiple pressure lubricator, jump spark and throttle control, slow and fast speed carburetor, and wheel steer.

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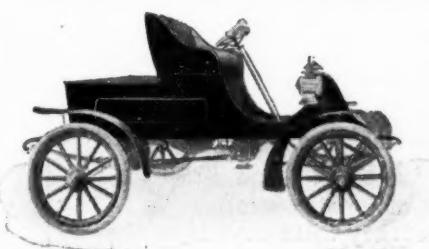
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## The Elmore Automobile....



is the most simple, practical and reliable car ever put on the market. It is propelled by the famous Elmore motor, whose two cylinders have fewer parts than a single cylinder of any other type.

Either engine will propel carriage should the other be cut out. (A very important fact.)

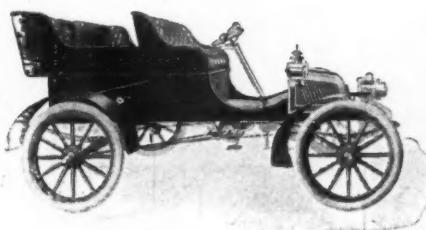
Has dynamo and storage battery. Motor will start and carriage will run on either. (Another important fact.)

You can charge the battery from the dynamo while running the carriage, which is another important fact.

Has had a practical test of over three years' manufacture.

Two first-class certificates in New York-Boston Endurance Run. Have been used in 1000-mile tours without trouble. And still more important facts.

Doctors' and Business Men's favorite car, Model 7, . . . . . \$800  
Tonneau Touring Car, Model 8, . . . . . \$1400



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# THE NEW ORIENT

MODEL OF 1903

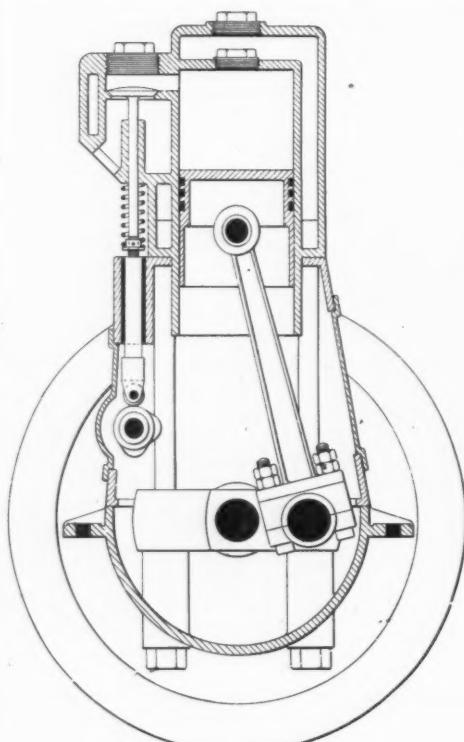
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8 H. P. PRICE \$1400.

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## TRUSTWORTHY..... GASOLINE MOTORS

This is the 8 horse power motor that we make.

Here is a gasoline motor that is all right and we make it.

If you could see our motors in operation we are convinced that they will suit you.

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All leaders in  
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This Vehicle  
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Runabout on  
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*Catalogue upon application.*  
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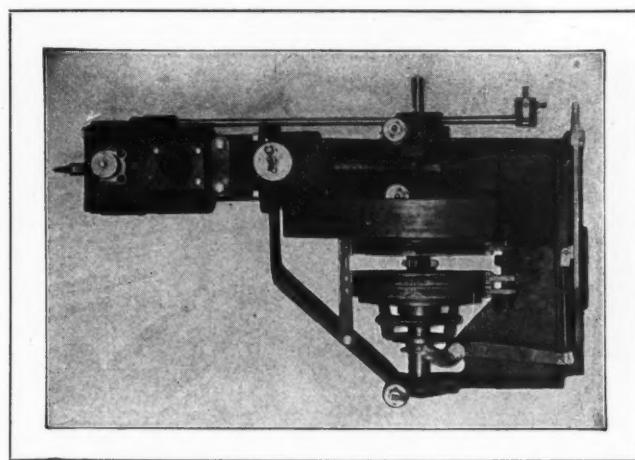
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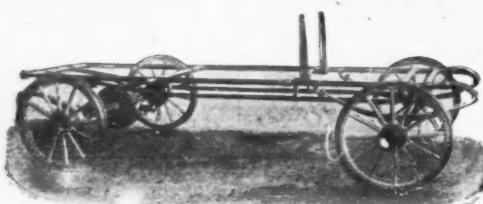
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Single Cylinder, 8 H. P., 135 pounds.  
Double Cylinder, 15 H. P., 265 pounds.

TUBULAR RUNNING GEAR FOR TONNEAUS.  
82-inch Wheel Base. 52-inch Tread.

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Gasoline Motors, Differential Spur Gears,  
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**Our Motors are of French Type and Equal in Finish and Service to Best Foreign Makes.**

The Differential Gear has Manganese Bronze Bevel Gear.  
Fitted for either 1½, 1¾ or 1½ inch axles. Is made for Direct Drive, Rod Transmission.

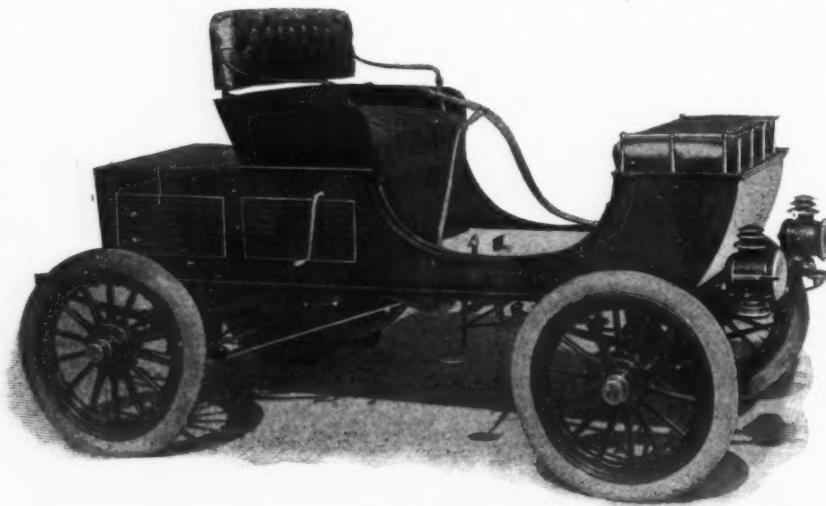
The Transmission Gear is built on a new system. No Bevel Gears. Gears always in Mesh. Ball Thrust at each end of shaft. Enclosed in Aluminum Case. Will transmit up to 20 H. P.

We make a Tubular Running Gear for Tonneaus that is a marvel of workmanship, finish and construction. All material is of the best and the Bearings are extra heavy. The Differential on this is fitted for either Sprocket or Bevel Gear.

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3 Speeds forward and 1 Reverse.

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Space 3=Exhibition Hall=New York Show.

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**Century Motor Vehicle Co., Syracuse, N. Y.**

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*that you can fool some people all the time and others most of the time but that you can't fool all the people all the time.*

The greatest man in many respects that the world has produced was quite right. That's what may happen for a time with

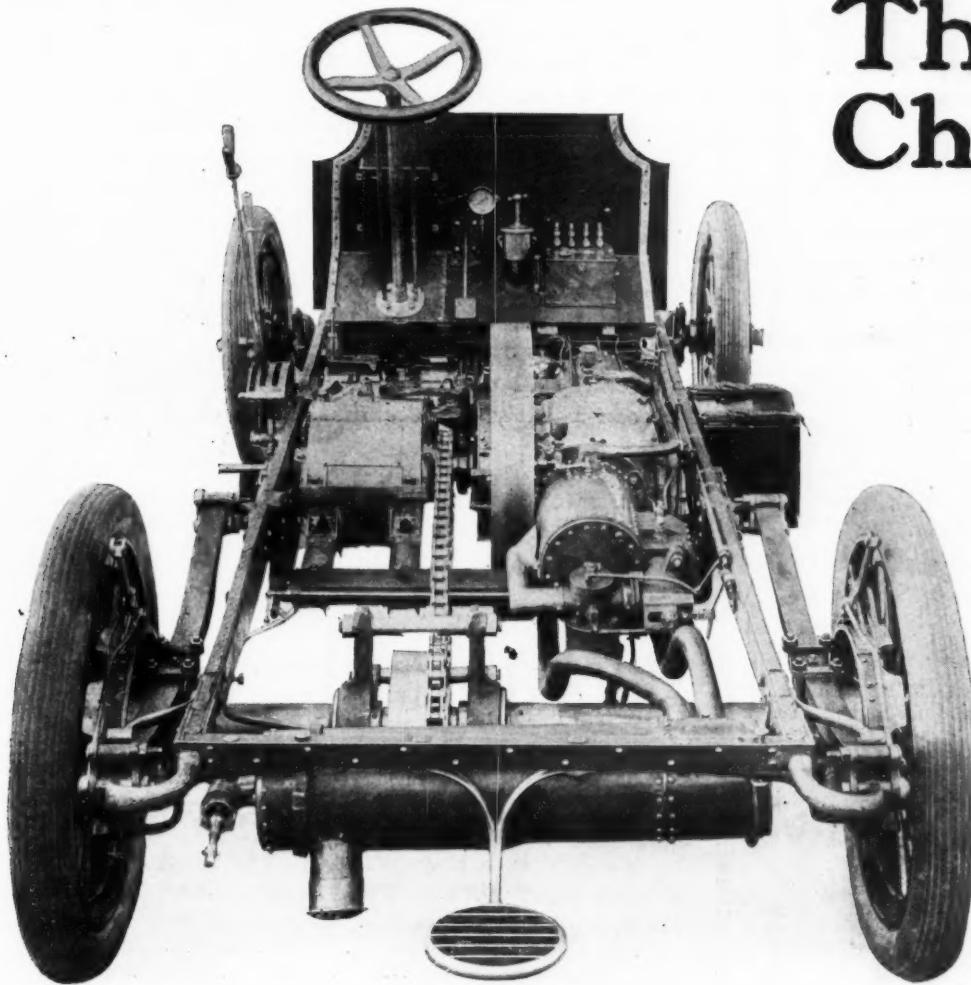
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Automobile manufacturers have been experimenting with their wheels and sometimes are paid dear for their experimenting; but it is the automobile buyer that usually foots the bill. That's why we guarantee the Midgley wheel so that the loss will fall on us and not on the man who buys the automobile. Our year's guarantee should set you thinking about your 1903 automobile wheels. They can be fitted to any style of bearing and never rust and never warp or get out of true. They cost a trifle more than poor wheels, but manufacturers will put them on if you insist. Midgley Steel Wheels are lightest, strongest, run the fastest and last the longest.

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25 horse power Motor, silent and practically no vibration. Three speed, sliding gear transmission, direct connected with rear axle. Frame "Bois Arme" type, mounted on forty-inch springs, with thirty-four-inch wheels and eight-foot wheel base. Small tube radiator and 200-mile tank capacity. All controls at the wheel. Spark coils, oilers, switch and circulation indicator on dash; battery box on side of frame.

A Lot of Good, Practical Ideas to think about.

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Stearns Cars are Worth More than they cost.

## Equal to the \$2,500 Kind

but at one-third the cost. Easily said, but as easily proved when you examine the

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## Touring Car

Replete with ingenious devices, ample power, long wheel base, 78 inches, artillery wheels and three inch tires; oil tight gears and differential; strengthened in all its parts to meet the increased power, there is no carriage offers such value at the price,

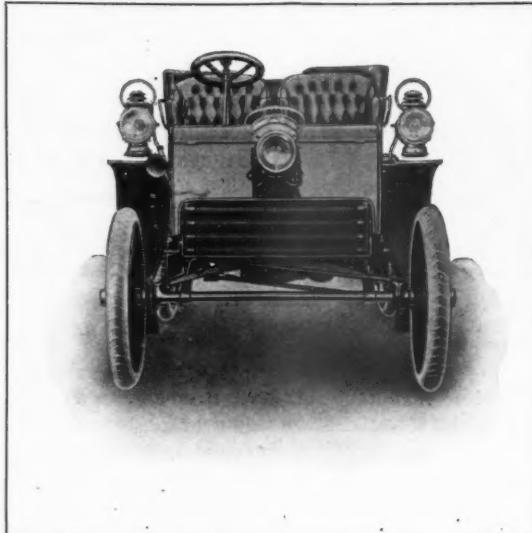
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**\$2,500**

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The mathematical accuracy with which the timing of the spark is controlled by a centrifugal governor has just as much to do with the wonderful economy of the Packard Motor Car as anything else. It would be as foolish to operate the valves of a Corliss engine by hand and expect to get the best results as to place the time of ignition in the hands of the operator. There can be only one point for each impulse stroke which is absolutely dead right. This point varies with every change of motor speed and nothing less than the patented centrifugal governor on the Packard Motor can possibly produce the highest efficiency.

Write for Catalog to

**Packard Motor Car Co.**

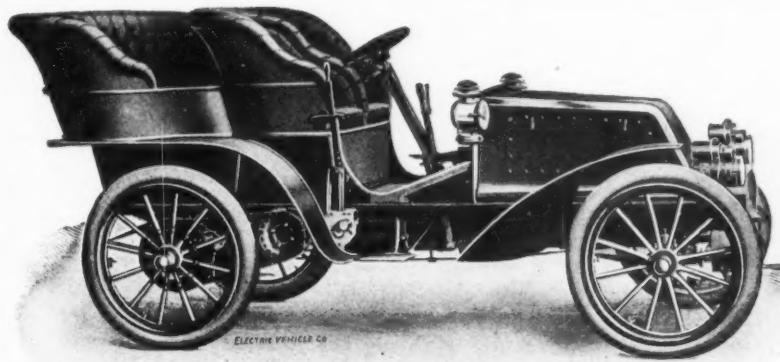
**WARREN, OHIO**

NEW YORK: Eastern Department, 317 W. 59th St.  
BOSTON: H. B. Shattuck & Son, 239 Columbus Av.  
PHILADELPHIA: Wm. F. Rudolph, 302 N. Broad St.  
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# Columbia Automobiles

New Models for 1903

24 H. P.  
Columbia  
Gasoline  
Touring  
Car



A thoroughly American machine for American roads. All parts of engine and running gear instantly accessible. All parts interchangeable. All screws and bolts have standard threads. Noiseless running. Drop forgings throughout. 4-cylinder vertical water cooled engine. Through drive on high gear. Single lever for all speeds. Four speeds forward and one reverse. Speeds four to forty-five miles per hour. Two double acting brakes. New style Tonneau body, seating five persons. All body furnishings and fittings of COLUMBIA quality.

Most  
Efficient  
and  
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**"Seabright"**  
**Runabouts,**  
**Victorias,**  
**Surreys,**  
**Tonneaus,**  
**Cabriolets,**  
**Opera Busses**  
**and Broughams**

Which were so unqualifiedly successful during 1902, have been perpetuated with numerous improvements.

See Our Exhibit at  
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The COLUMBIA line for 1903 includes the following new vehicles.

- Columbia Light Electric Runabout**  
New form of Underslung Battery, leaving body entirely open.
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Containing distinctive features of both the Brougham and Hansom types.
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Dispensing with necessity for separate driver. Especially desirable for Physicians.
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For inspectors, superintendents, fire and police chiefs, and others requiring high-powered electric automobiles for hard service.
- Delivery Wagons and Trucks**  
Entirely new models containing many exclusive features, adapted to all kinds of commercial uses.

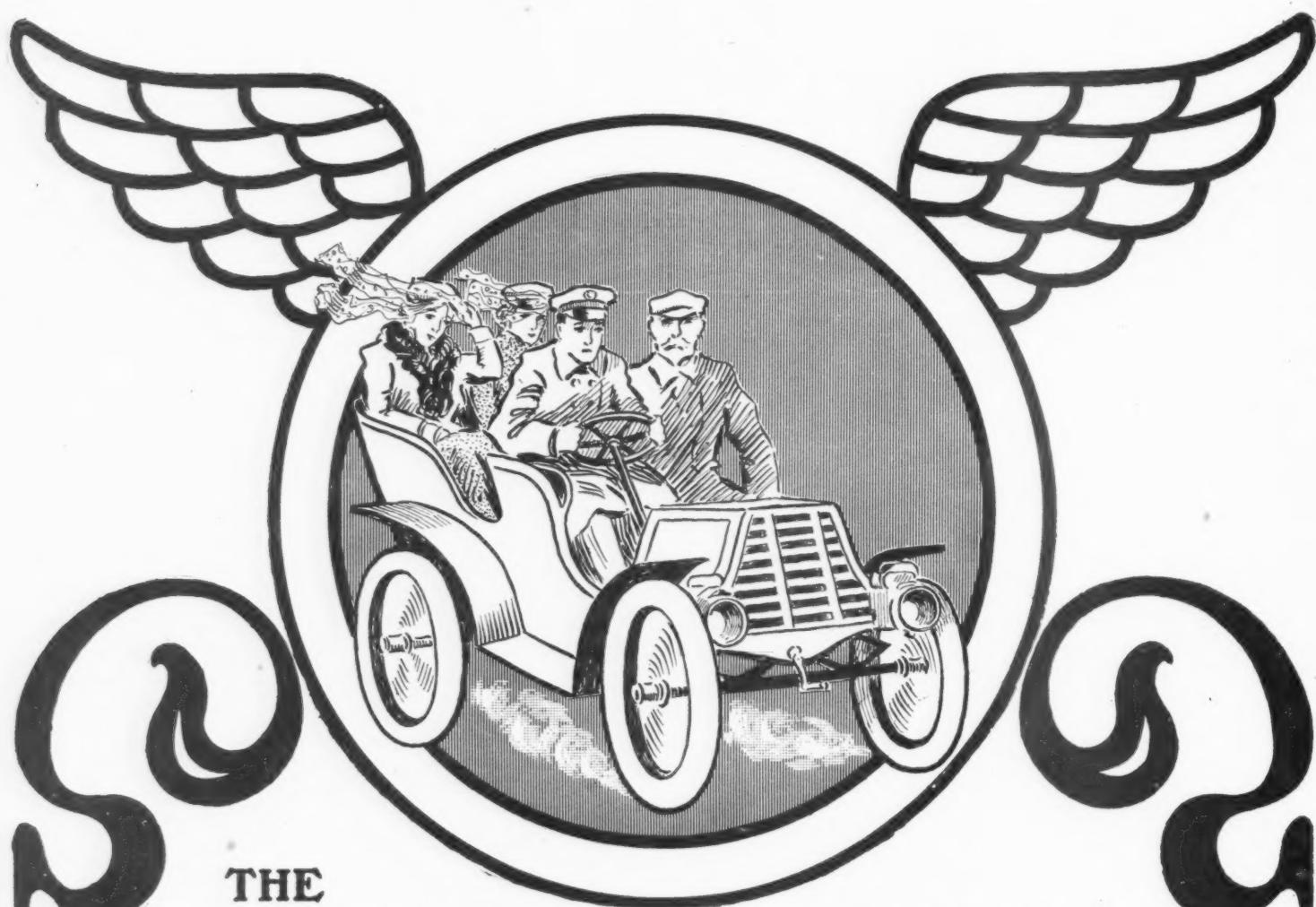
*Catalog Will Be Sent on Request, Also Special Bulletins With Complete Detailed Information for Each Vehicle Separately*

**Electric Vehicle Company, HARTFORD,  
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THE  
PLEASURES OF AUTOMOBILING

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**HARTFORD or DUNLOP  
PNEUMATIC TIRES**

The ORIGINAL and "MODEL" TYPES of SINGLE  
AND DOUBLE TUBE TIRE CONSTRUCTION

Appreciating the fact that requirements vary as to Single Tube and Detachable Tire Construction, we offer the most reliable of both types—*The Honest Standards.*

THEY WERE BEST YEARS AGO, AND YEARS OF INTELLIGENTLY PERSISTENT,  
CAREFULLY DIRECTED EFFORT HAS MADE THEM BETTER TO-DAY.

Where Quality is desired—where Comfort, Durability, and Protection against Annoyances is wanted—where All-round Satisfaction is demanded—these tires should be adopted. Let us prove this to you by sending you signed statements from some of the most prominent makers and users in this country.

**The Hartford Rubber Works Company, Hartford, Conn.**



**The Original  
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Our construction, our pattern and our style of rim are recognized as the standard by all licensed makers of Clincher Tires.

A Pattern  
For Other Manufacturers  
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All repairs and adjustments made at the following branches, which carry a full and complete line of standard sizes of tires and parts constantly on hand:

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THE pioneer runabout of America which stands today as the most forceful example of mechanical simplicity and perfection.



The OLDSMOBILE is built to run **and does it.** Its working mechanism is true to a hair, each working part is made from solid steel forgings, and the improved carbureter is a step in advance of the times.

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FOR THE

**OLDSMOBILE** "The Best Thing on Wheels."

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Oldsmobile Co., Cleveland,  
Oldsmobile Co., Githens Bros. Co., Chicago.  
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## For General Appearance, Style and Finish

A quiet running motor with a perfect throttling device. A three speed transmission that is right, and all parts easy of access for all adjustments. The arrangement of attachments on the dash and controls at the steering wheel also found favor with all. The new Radiator with tanks for 200 miles running is a step in advance. Think it over seriously. **IT IS THE CAR TO BUY.**

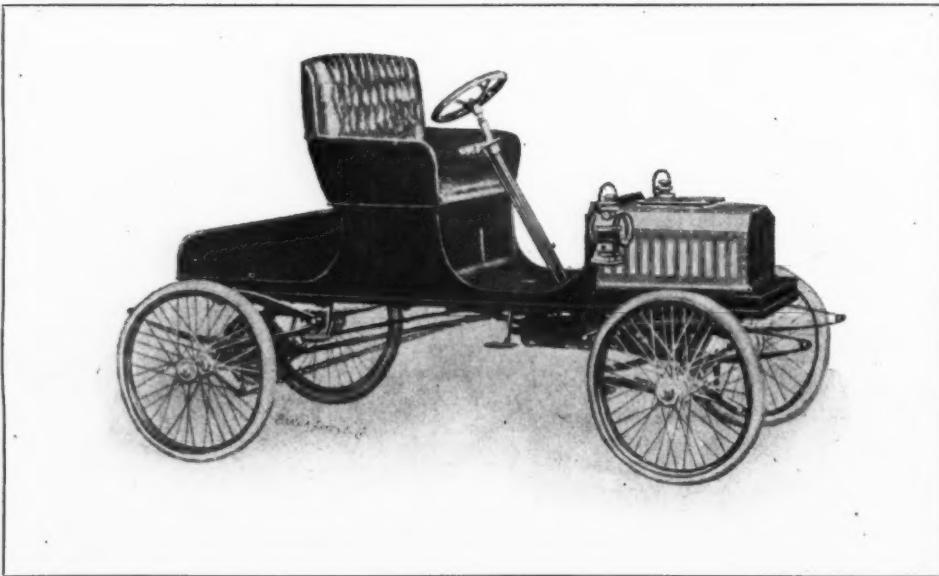
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## Runabout \$750

8 H. P. Vertical Engine, Double Cylinder.  
Sliding Gear Transmission, 2 speeds  
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## Touring Car \$1,250

12 H. P. Vertical Engine, Double Cylinder.  
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Wheels,  $3\frac{1}{2} \times 30$  Detachable Tires.



It is one of the Winners at New York Show, Madison Square Garden, this week; will be  
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# Conrad Motor Carriage Co.

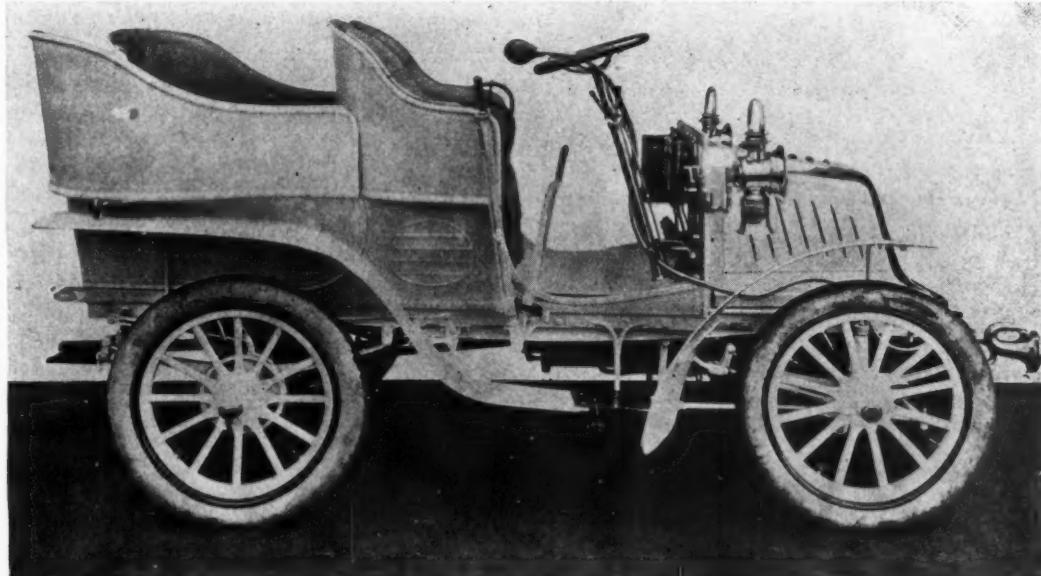
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# They All Wanted German Ideas

So said all dispatches and editorials on the Paris show. The French maker now knows that the German is ahead in construction.....

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Two and Four Cylinder Types. 12 and 16 H. P. Single Lever Control.  
Four Speeds and Reverse. We Invite Inspection. Instruction  
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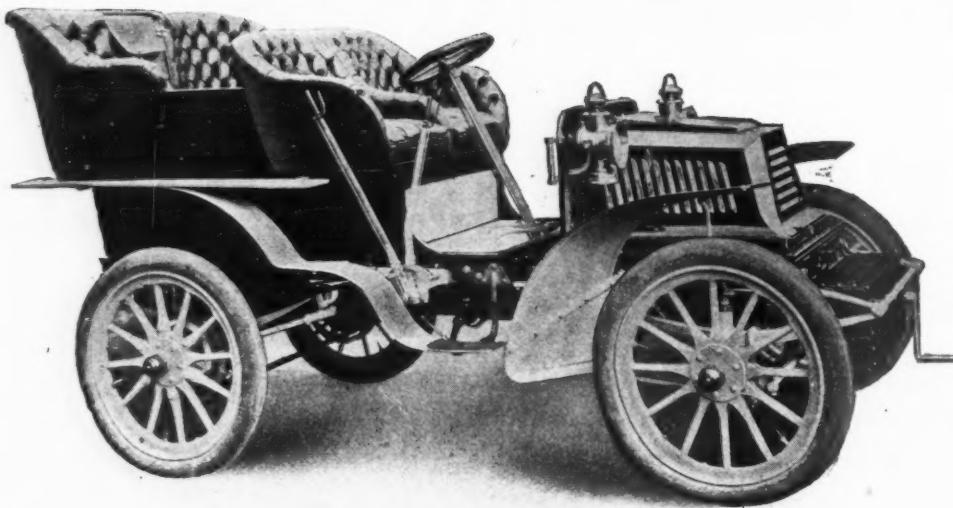
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The *Searchmont.*



1903 MODEL. TYPE VII.

**H**OW can you sell such a car for \$2,500 when others ask \$4,000 to \$10,000 for cars so similar to yours?" is a question often asked at our exhibit in the New York Auto Show. We make them in large quantities and are content with a reasonable profit. Read the description of the various cars at the show in the trade or daily papers and compare the Searchmont with others. Do not pay \$4,000 or more for an Automobile until you have seen the SEARCHMONT.

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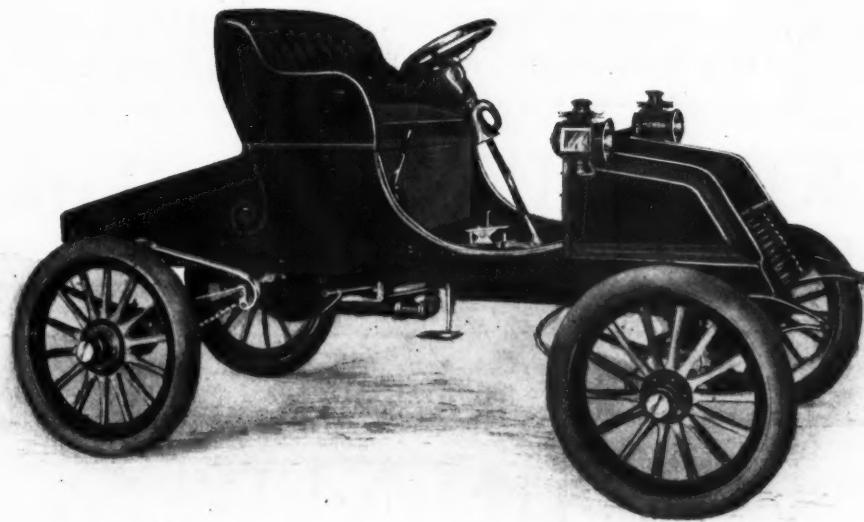
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Moderately Priced  
Easily Operated



for all Seasons

EQUIPPED with an 8 h. p. Double Cylinder Gasoline Engine. Serviceable on all roads and in all weathers. Will climb with ease a 30 per cent grade on any ordinary road. The mechanism is simple. Requires no chauffeur—can be operated by any member of the family.

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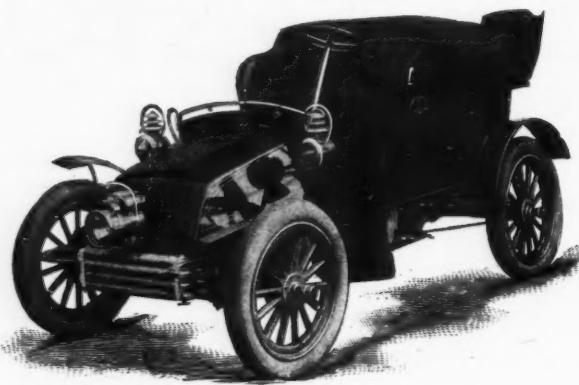
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ATTRACTIVE  
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We Exhibit at New York and Chicago.

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....THE NEW....

# DARRACQ

1903 MODELS.

The Sensation of the Paris Show.

New transmission, new styles, no vibration, noiseless, new ignition system, new valve system, chainless drive, large wheels, large tonneaus and latest improvements in French motor car construction.

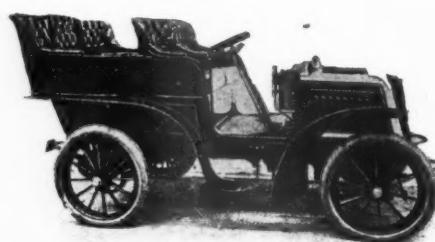
8, 9, 12, 16, 20 and 24 Horse Power.

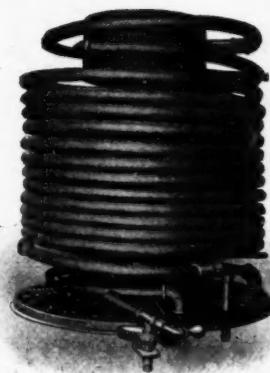
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Boiler Showing Feedwater Heater  
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Boiler Complete, Ready for Connection.

These are the reasons why  
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discard their boilers for the 

### SALAMANDRINE WATER TUBE

## Never Burn Out ...Boilers...

**Cannot Burn Out. :: Safe and Reliable. :: Burner Does Not Back Fire. :: Economical as to Fuel. :: No Torch Used. :: Generates 350 lbs. of Steam in 3½ Minutes from Lighting of the Burner. \* \* \***

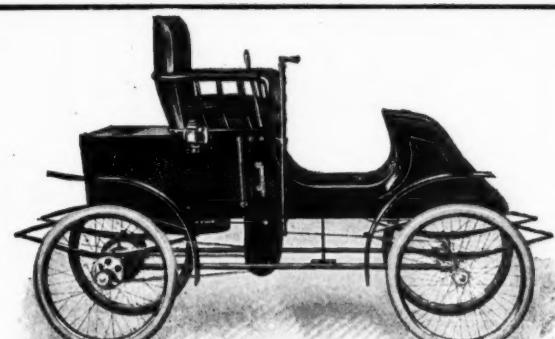
Boiler is Exhibited by Chas. E. Miller at Spaces 46-51 at New York Auto Show,  
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Will Be Exhibited at Chicago Auto Show by P. J. Dasey Co. at Spaces 148-151.

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Works: NEWARK, N. J.

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### GOLD MEDAL WINNER IN RELIABILITY RUN A Steam Car for the Posted

1903 Models Now Ready. :: Exhibited at New York  
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Agents Will Be Appointed.

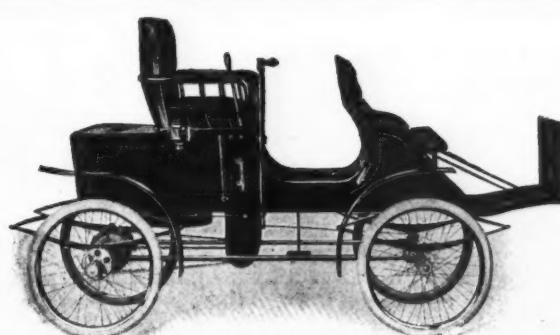
### THE PERFECT PRACTICAL PRESCOTT

...A S T E A M C A R...

Made so Perfectly that it is Appreciated  
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THEY WHO KNOW IT ARE LOUD IN ITS PRAISE

IF YOU HAVE HAD TROUBLES, GET A PRESCOTT  
THEY SATISFY

Prescott Automobile Mfg. Co.  
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FOUR PASSENGER

....THE....  
**SPERRY BATTERY**

WILL BE READY FOR DELIVERY IN MARCH

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Simplicity, Resiliency and  
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*The Season's Success*

Double Tube



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**FISK RUBBER COMPANY**

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**We Sell Automobiles**

RAMBLER WAVERLEY  
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WANT AGENTS FOR UNOCCUPIED TERRITORY.

**Come and See Us When  
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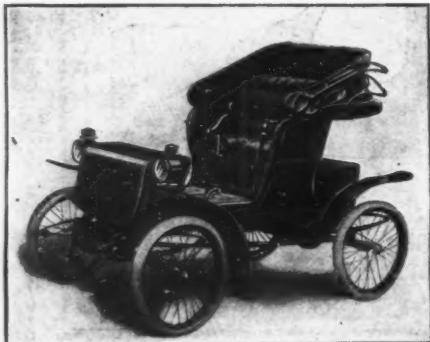
WE EXHIBIT IN 22 SPACES AT  
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*Ralph Temple & Austrian Co.*

NEW YORK SALES DEPARTMENT  
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THE

**"STEVENS-DURYEA"**  
 GASOLINE AUTOMOBILE

Our 1902 Records

SPEED—Sept. 24—Providence, R. I., 5 Miles in 7:42. Track Records for 1 to 5 Miles.  
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Car is Equipped with a 7 Horse Power Two Cylinder Motor and Runs  
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## Meteor Steamers



## Reading Steamers

**DEALERS:**

Before placing your contracts for 1903, investigate the merits of "Meteor" and "Reading" Steam Tonneaus and Runabouts.

Space 69 New York Show

Office and Factory  
**READING, PA.**

SUPERIOR FINISH,  
STRONG RELIABLE  
and  
SPEEDY

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The Upton Machine Company announces that it is the owner of U. S. Letters Patent as follows:

**649,026, dated May 8, 1900.  
686,786, dated Nov. 19, 1901.  
687,172, dated Nov. 19, 1901.  
687,173, dated Nov. 19, 1901.  
691,507, dated Jan. 21, 1902.  
691,508, dated Jan. 21, 1902.**

And has other patents pending. These patents relate to gearing and other Automobile Appliances.

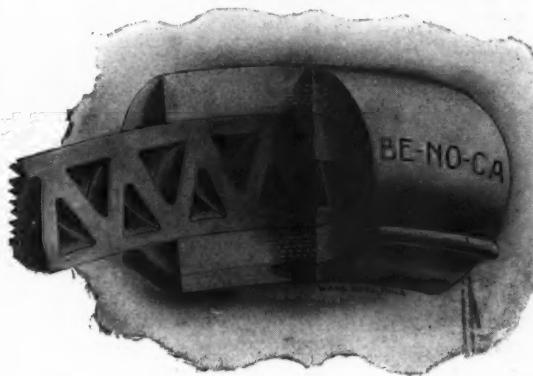
**Notice** is hereby given that **infringers will be prosecuted** to the full extent of the law.

**Upton Machine Co.**  
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## "BE-NO-CA"

(TRADE MARK)

Known to the trade as the  
**BEASLEY ELASTIC  
TIRE**



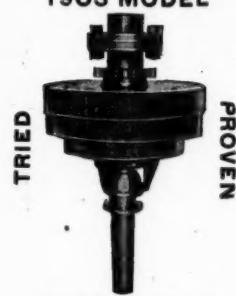
Built on the truss principle, it's strong and the strain is equally distributed.

Amply resilient yet defies destruction or disabling by puncture.

Can be used until completely worn out.

**Standard Anti-Friction  
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**1903 MODEL**


Patented March 4, 1902  
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**Two Speeds Forward and One Reverse, Made in Three Sizes.**

No. 1—3 to 5 brake horse power, price	\$65.00
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We also make special gears for direct drive and marine uses. If you wish to eliminate all your transmission troubles get the **CHAMPION**. Not Cheapest, but Best.

Liberal discount to the trade.

New catalogue ready about the 20th.

**THE CHAMPION MFG. CO.**  
**479 Hancock Street,** **BROOKLYN, N. Y.**

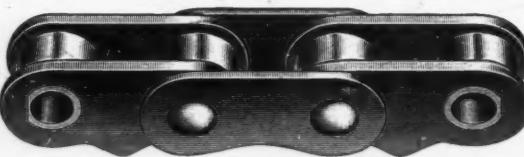
**SALES AGENTS**

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**Accuracy & Durability**



**Fine Proportions**

INVESTIGATE "WHITNEY" CHAINS AT THE NEW YORK AND CHICAGO AUTOMOBILE SHOWS.

"WHITNEY" STANDARDS for Dimensions of Roller Chains Will Soon Be the American Standards, if The Continue to Find Endorsers at the Rate Established During the Past Few Months.

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AND  
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Complete Line of the Highest Grade Running Gears and Bodies on the Market. All the Latest Designs. Also Full Line of Parts. Satisfaction Guaranteed.

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No. 1.

—AN—  
**AUTOMOBILE  
NECESSITY**



Tripod.

Adjustable Lifting

**B=B JACKS**

Manufactured by

**Bray Manufacturing Co.  
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**DIAMOND CHAINS  
ARE ALWAYS RELIABLE**

Our Chains were fitted to 14 of 16 vehicles which won first-class Certificates in the New York-Boston 500-mile reliability contest.

All WINTON cars will be equipped with Diamond Chains.

FEDERAL MANUFACTURING COMPANY  
DIAMOND CHAIN FACTORY—Indianapolis



## The Automotor

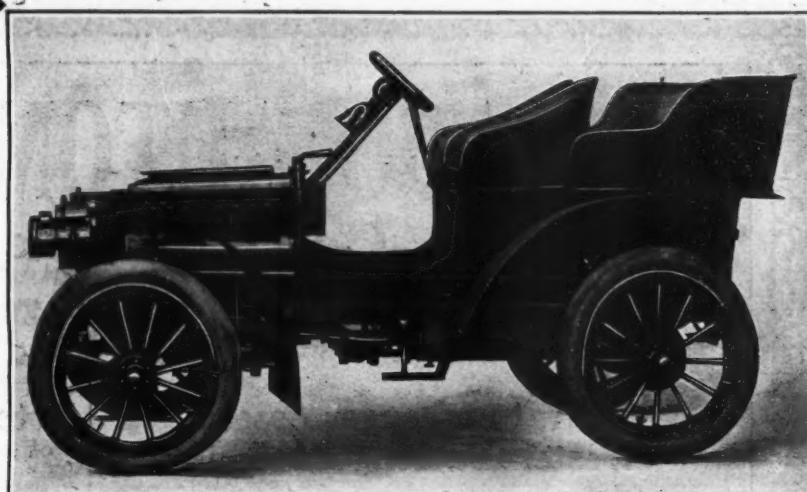
A Specially Constructed, Powerful  
Touring Car, Designed for Those  
Who Place Quality Before Price.

Our Output is Limited... Early Orders Mean Early Delivery.

Correspondence Invited.

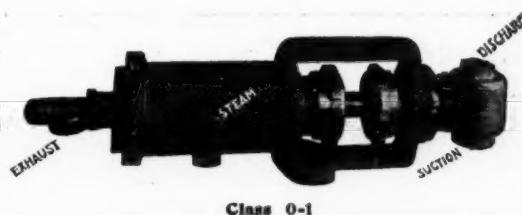
**Automotor Comp'y,**  
Springfield, - - - Mass.

...We Exhibit at New York Show...



## The Moore Independent Automobile Pump

We never miss the Pump till the Boiler runs dry



The above cut represents the Single Pump Boiler Feeder, single-acting plunger type.

Steam end is tapped in three places for steam, one place for drip; plug can be changed to any of three places, or drip can be taken from any not used for steam. Steam end can be located in any horizontal position.

Water end must be located so delivery shall be vertical as relates to the valves. Exhaust can be taken out at any angle.

Manufactured by the

**"Union" Steam Pump Company**

BATTLE CREEK, MICHIGAN

## Fenders and Hoods Steel or Aluminum

Best Enamel Finish, Baked on  
Any Color.



We Are Supplying Some of the  
Largest Manufacturers. :: Our  
Fenders WILL NOT Warp, Rip,  
Check or Sag, and MUD Does Not  
Spot or Stain Them.

### BEST WORKMANSHIP AND MATERIAL.

Write for Price on Our "O" Fenders  
Stating Quantity.

**The Wilson & Hayes Mfg. Co.**

43-45 Michigan St. CLEVELAND, OHIO

## THOR MOTORS....

and complete set of fittings are ready for delivery. No machinery necessary to complete Motor Cycles from these parts. *There are hundreds of purchasers for Motor Cycles where there is one for an Automobile.* Motor Cycles will sell all summer.

Write for full particulars to the salesmen,

BRANDENBURG BROS. & ALLIGER,  
85 Lake St., Chicago.

103 Reade St., New York.

**Aurora Automatic Machinery Co.**  
**AURORA, ILL.**

# CHICAGO AUTOMOBILE SHOW

Coliseum, Feb. 14-21.

## **REDUCED RAILROAD RATES.**

The Central Passenger Association  
Western Passenger Association  
Trunk Line Association  
New England Association

have granted reduced rates on account of the good Roads Convention of the National Association of Automobile Manufacturers, to be held at the Coliseum, Chicago, during the Chicago Automobile Show, Feb. 14 to 21, 1903.

These associations cover all the territory between Cheyenne, Wyo. (including all points in Colorado) and the Atlantic Coast.

### Note These Instructions Carefully.

On purchasing ticket for the trip to Chicago, ask the ticket agent for a certificate *on account of the Good Roads Convention of the National Association of Automobile Manufacturers.*

On your arrival at the Coliseum present it at once to the railroad agent who will be in attendance from Monday to Saturday. He will certify that you have been in attendance, but it is necessary for him to know that there are at least 100 holders of certificates, hence the necessity of delivering them to him immediately on arrival.

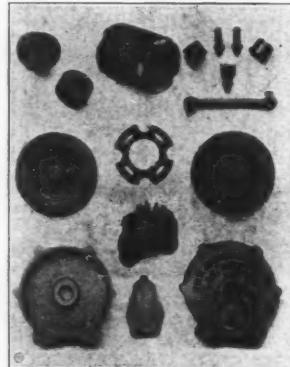
Your certificate when presented at the depot will entitle you to buy your return ticket at one-third of the regular fare.

Tickets for return journey will be furnished only on certificates dated not more than three days before the opening of the convention, nor more than two days after the first day of the convention, and presented within three days after convention closes. Sunday will not be reckoned as one of the three days either before the opening date or after the closing date, and all return tickets will be for continuous passage.

**EVERY PROMINENT MAKER WILL EXHIBIT.**  
Morning Sessions Free to the Trade.

SAMUEL A. MILES, Mgr., Monon Bldg., CHICAGO.

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Air cooled motors for all purposes. Simplest, lightest and most durable made.

### Build them Yourself.

We furnish you the Castings and Blue Prints that any mechanic can work from.

Our motors are the up-to-date kind.....

### 2 1/2 H. P. CASTINGS.

All iron, per set.....	\$ 8 00
With aluminum crank case.....	12 00
With aluminum crank case, steel cylinder and bronze firing head.....	15 00
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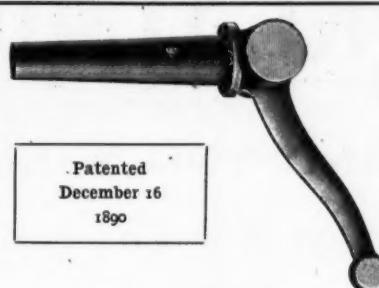
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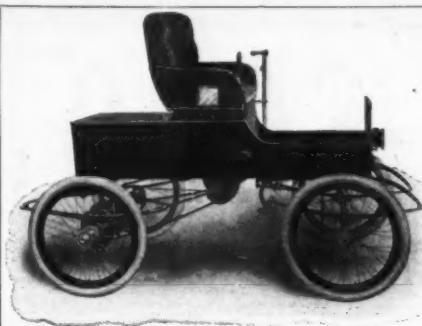
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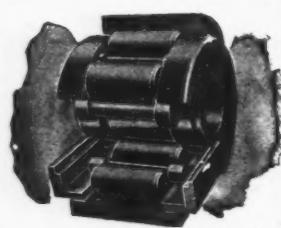
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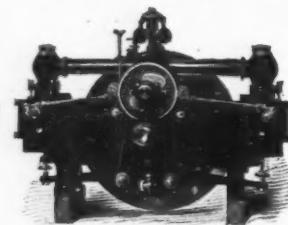
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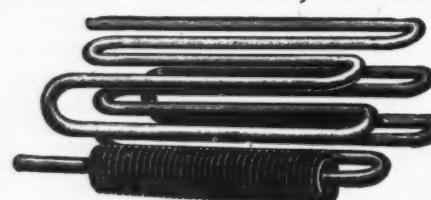
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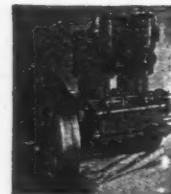
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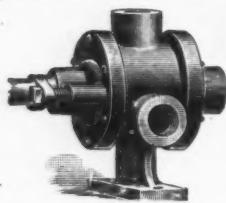
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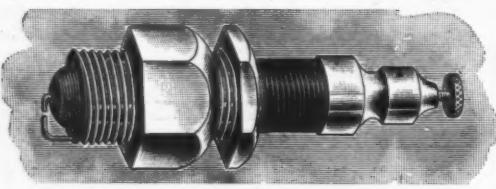
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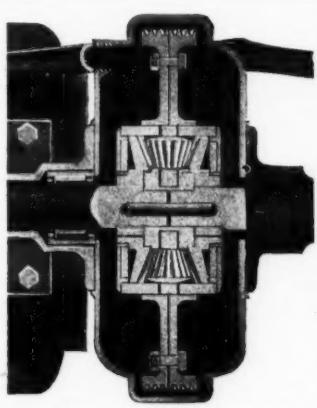
Three Mobiles, A-1 shape, \$195.00 each; Win-  
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We buy, trade for and sell more automobiles  
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Lindsay's Patent Differential  
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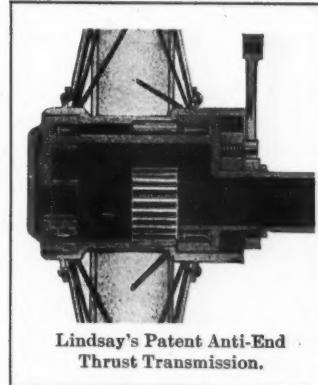
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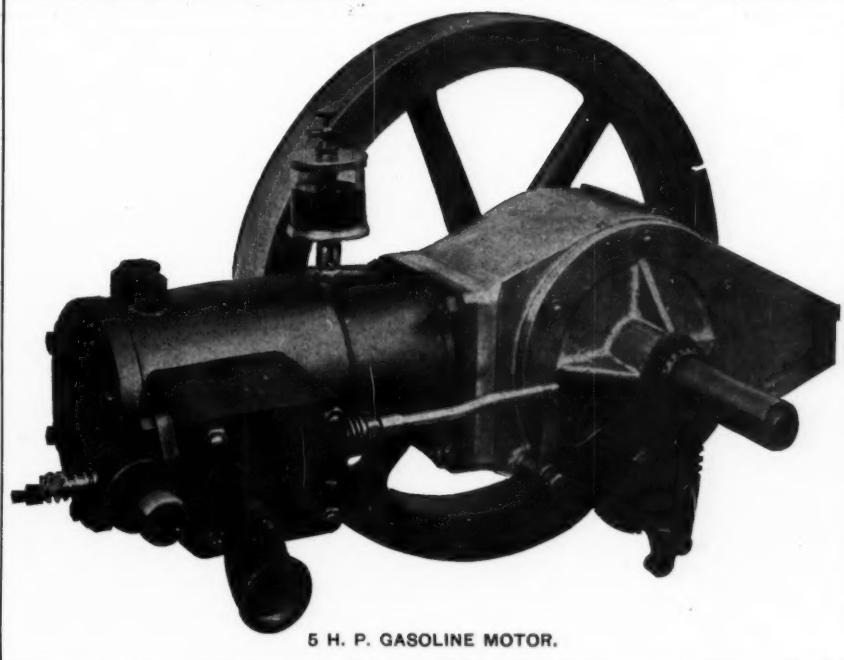
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If you want an up-to-date automobile, use the Lindsay Complete Running Gear. The best is always the cheapest, and

**OUR PRICES ARE RIGHT**



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Thrust Transmission.

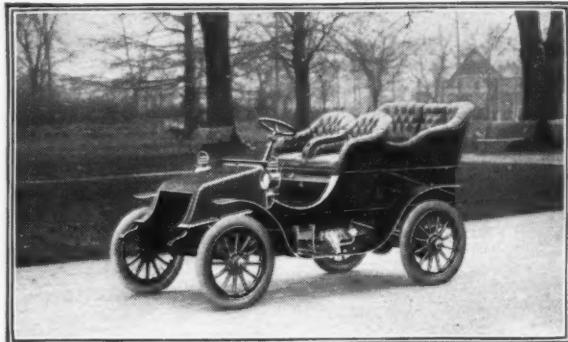


5 H. P. GASOLINE MOTOR.

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MAKE  
GASOLINE  
MOTORS  
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INDIANAPOLIS, . . . . . INDIANA

# \$2,500



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pay two thousand, five hundred dollars for a genuinely good automobile which represents the present highest standard of excellence in design and manufacture?

If you do not appreciate the vital difference between superficial perfection and construction that is honestly good and thoroughly scientific from wrist-pins clear out to the last coat of finishing varnish, then you will not be especially attracted by the new twenty horse-power

## **WINTON TOURING CAR**

We hope, however, that you will recognize our latest successful efforts and accord this new model the consideration it deserves. You who have been conscious of the rapid development of the successful American automobile, who have watched it through its various stages since the time—years ago—when Mr. Alexander Winton ran upon the roads his first “horseless carriage,” will recognize the great strides we have made toward the goal of perfection in automobile building, and can appreciate in no small sense the genuine pride we feel in this latest triumph.

It is not intended as a “sensation”. It does not incorporate a vast number of rare features for which we, in justice, can claim no more than theoretical excellence. Its construction does not embody a vast number of untried experiments, and we do not, therefore, ask anyone to share in a manufacturer's gamble. In presenting this model we give the very essence of practical and thoroughly tried out experience.

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